

DESCRIPTION

Two-component, solvent-free, filled, polyamide cured epoxy.

USES

Repairing and patching defects in concrete such as honeycomb and spalls.

ADVANTAGES

- Easily installed by gloved hand
- Easily smoothed to finish off
- · Holds perfectly in overhead work
- Non-slump in vertical
- Needs no priming
- Strengths way above surrounding concrete
- · Resistant to oils, fuels, water, dilute chemicals
- Non toxic in water containment

SURFACE PREPARATION

Any surface to be repaired with **epidermix® 314** must be clean, mechanically sound and dry. The surface should be chipped to expose main aggregate and in the case of honeycomb, all suspect material must be cut out. The surface must be free of all debris prior to placing the compound.

BONDING/PRIMING

Self priming.

PROPERTIES OF WET MATERIAL	
Mixing ratio:	1:1 by volume
Density (typical)	1.91 g/cm ³
Colour	Base: Off white
	Mixed: Grey – similar to concrete
Finish	Trowelled to smooth finish with water –wet steel trowel
Flash point	+ 150 °C
Dilution	Do not dilute
Consistency	Each component is a heavy paste
Toxicity	Uncured material is toxic

PROPERTIES DURING APPLICATION		
Application by	Gloved hand and/or steel trowel	
Pot life @ 25 °C	110 - 130 minutes/500 ml	
Volume solids	100%	
Theoretical coverage	$1 m^2 / \ell / 1 mm \ thickness$	
Wet thickness at above	1 mm	
Maximum recommended thickness per layer	25 mm	
Curing time @ 25°C	Touch dry: 6 hrs Practical cure: 12 hrs	
Overcoating time @ 25°C	Minimum: 8 hrs Maximum: 24 hrs	
Applicaton temp. Range	10 °C to 40 °C	
Fire resistance of wet material	Non-flammable	
Equipment clean-up	abe® super brush cleaner	

PROPERTIES OF CURED MATERIAL	
Maximum service	Dry: 70 °C
temperature	Wet: 60 °C
Compressive strength @ 25 °C	60 MPa in 24 hrs
	74 MPa in 7 days
Tensile strength @ 25 °C	8 MPa
Lap shear on grit blasted steel	2 mm bondline thickness
Arizone shear test	Concrete failure in bondline at 400 kN load 44 MPa concrete
Shrinkage during cure	Negligible
Toxicity	Non-toxic
Water resistance	Excellent
Tainting	Will not taint water
Solvent resistance	Resists aliphatic solvents, oils, petrol, diesel, fuel
Chemical resistance	Resists dilute inorganic acids and dilute alkalis



MIXING

epidermix® 314 is a heavy paste to the extent that it can only be mixed by kneading with gloved hands. Set up equal volumes of base and activator side by side on a clean board. Do not take more than about 250ml of each compound at one time. Knead the two components together (like mixing bread dough) for at least five minutes.

The mixing surface and gloves should be wetted with clean water.

COVERAGE

 $1 \text{ m}^2/\ell/1 \text{ mm thick.}$

APPLICATION

Mixed **epidermix® 314** should be pressed into place in the repair area, always using a gloved hand. The viscosity of **epidermix® 314** is sufficient to hold its place in soffit repairs and on vertical faces. If the void is too big to fill in one placing, leave the contact surface rough to act as a key for subsequent placing once the first application has set. A final smooth finish may be obtained by trowelling off the surface of the still uncured **epidermix® 314** with a water-dampened steel trowel.

CLEANING

abe® super brush cleaner before dried/cured.

PROTECTION ON COMPLETION

Against traffic and spillage until cured. Most epoxies chalk and degrade in extensive sunlight.

TEMPERATURE AND RELATIVE HUMIDITY

See "Properties of Materials, Properties During Application, Cured and Wet".

MODEL SPECIFICATION

This product has a shelf life of 12 months if kept in a dry cool place in the original packaging. In more extreme conditions this period might be shortened

Store in dry conditions in the original containers. If stored at high temperatures and/or high humidity conditions the shelf life may be reduced.

durarep® ZR primer is fl ammable. Keep away from sources of ignition. No smoking. In the event of fire, extinguish with CO² for foam. Do not use a water jet.

HEALTH & SAFETY

The mortar shall be **epidermix**® **314**, a two component, solvent free, polyamide cured epoxy mortar applied in accordance with the manufacturers recommendations, **a.b.e.**®. The cured mortar shall have a compressive strength of 74 MPa in seven days and be resistant to aliphatic solvents, oils, petrol and diesel fuel.

PACKAGING

epidermix® 314 is supplied in 2 \ell and 4 \ell kits.

HANDLING & STORAGE

This product has a shelf life of 24 months if kept in a dry cool place in the original packaging. In more extreme conditions this period might be shortened.

HEALTH & SAFETY

Uncured **epidermix**® **314** is toxic and flammable. Always ventilate the working area well during application and drying. Avoid flames in vicinity. Always wear gloves when working with the material and avoid

excessive inhalation and skin contact. If material is splashed in the eye, wash with copious quantities of clean water and seek medical attention.

Cured **epidermix® 314** is inert and harmless. When transporting liquids and semi liquids by aircraft, ask for material safety data sheet.

IMPORTANT NOTE

This data sheet is issued as a guide to the use of the product(s) concerned. Whilst **a.b.e.**®endeavours to ensure that any advice, recommendation, specification or information is accurate and correct, the company cannot accept any liability for application – because **a.b.e.**®has no direct or continuous control over where and how **a.b.e.**® products are applied.

FURTHER INFORMATION

Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements.

a.b.e.® has a wealth of technical and practical experience built up over the years in the company's pursuit of excellence in building and construction technology.

Please consult our website for our latest datasheets.

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